

# Work Order ID 83310

**\*83310\***

Page 1

Tuesday, April 17, 2012 1:13:27 PM

Item ID: D6101-003 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Saddle Billet, 7075  
 Start Date: 4/17/2012 Start Qty: 40.00 **\*40\*** Cust Item ID:  
 Required Date: 4/25/2012 Req'd Qty: 40.00 **\*40\*** Customer:  
 Reference:

Approvals: Process Plan: *[Signature]* Date: 12-04-17 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_  
 Run Start **\*NR1\***  
 Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D6101	Rev B

100 PURCHASING 0.00

**\*100\***

Purchasing

Purchasing

## Memo

Issue P/O: 16743  
 a) Description: Alluminum billet ✓  
 b) 7.875" x 6.250" x 2.00" thick ✓  
 c) Tolerance on all dimensions are +0.030"/-0.000" ✓  
 d) Grain direction along 7.875" length ✓  
 e) Material: 7075-T7351 (QQ-A-250/12) ✓  
 f) Material certification required ✓

110 Receive & Inspect for Damage & Mat'l Certs 0.00

**\*110\***

Packaging

Packaging

## Memo

Ensure material certification is attached

12-04-17

*[Signature]* *[Signature]*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

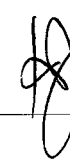
**Work Order ID 83310****\*83310\***

Page 2

Tuesday, April 17, 2012 1:13:27 PM

Item ID: D6101-003 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Saddle Billet, 7075  
Start Date: 4/17/2012 Start Qty: 40.00 **\*40\*** Cust Item ID:  
Required Date: 4/25/2012 Req'd Qty: 40.00 **\*40\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 <b>*120*</b> QC Quality Control	QC6- Inspect dimensions to drawing  Memo Ensure Material certification comply to Dwg D6101	0.00  0.00	<i>OK 12/05/03</i>			<u>40</u>	<u>0</u>		
130 <b>*130*</b> Packaging Packaging	Identify as per dwg & Stock Location: <u>MAT42</u>  Memo	0.00  0.00	<i>OK 12/05/03</i>			<u>40</u>	<u>0</u>		
140 <b>*140*</b> QC Quality Control	QC21- Final Inspection - Work Order Release  Memo	0.00  0.00							<i>12/5/3</i> 

*12-05-3*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Tuesday, April 17, 2012 1:13:31 PM

Page 1

Work Order ID: 83310

\*83310\*

Parent Item: D6101-003

\*D6101-003\*

Parent Item Name: Saddle Billet, 7075

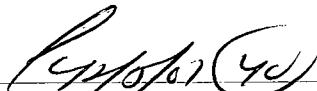
Start Date: 4/17/2012

Required Date: 4/25/2012

Start Qty: 40.00

Required Qty: 40.00

Comments: IPP A: 01.05.04New IssueEC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6101-003P		Purchased	No			110	Each	50.0000	1	40			
<b>*D6101-003P*</b>									<b>**</b>				
7075-T7351 2X6.25X7.875													
						<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>			
						MAT040		50					
						81924		50					

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

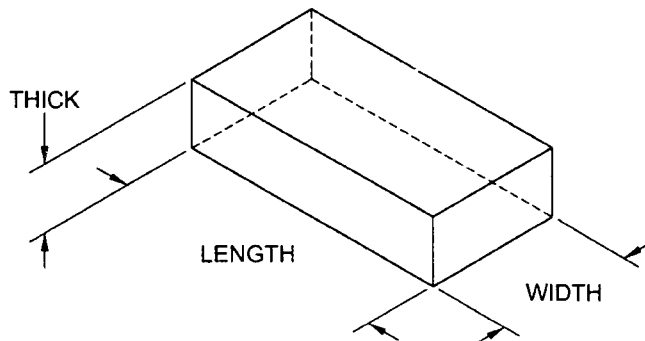
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# SPECIFICATION CONTROL DRAWING



SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 83310

*R/1204-17*

PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE. SPECIFY ALLOY, LENGTH x WIDTH x THICK (+0.030/-0.000), AND GRAIN DIRECTION AS SHOWN.

TOLERANCES ON ALL DIMENSIONS ARE +0.030/-0.000.

ALL DIMENSIONS ARE IN INCHES.

**B** ACCEPTABLE SPECIFICATIONS FOR 7075-T7351 ALUMINUM ARE AMS-QQ-A-250/12, QQ-A-250/12, OR ASTM B209

Part No.	Alloy	Length	Width	Thick	Grain Direction
D6101-001	7075-T7351 (QQ-A-250/12)	6.000	6.250	2.000	Along 6.000 Length
D6101-003	7075-T7351 (QQ-A-250/12)	7.875	6.250	2.000	Along 7.875 Length
D6101-005	7075-T7351 (QQ-A-250/12)	5.000	8.250	2.500	Along 5.000 Length
D6101-007	7075-T7351 (QQ-A-250/12)	7.750	8.250	2.500	Along 7.750 Length
D6101-009	7075-T7351 (QQ-A-250/12)	8.700	8.250	2.500	Along 8.700 Length
D6101-011	7075-T7351 (QQ-A-250/12)	9.700	8.250	2.500	Along 9.700 Length
D6101-013	7075-T7351 (QQ-A-250/12)	10.100	8.250	2.500	Along 10.10 Length
D6101-015	7075-T7351 (QQ-A-250/12)	9.450	6.250	2.500	Along 9.450 Length
D6101-017	7075-T7351 (QQ-A-250/12)	6.350	6.250	2.250	Along 6.350 Length

**RELEASED**  
*09/07/15/W*

B	ADDED D6101-015/-017, ADD ASTM B209	RF	09.04.23
A	NEW ISSUE	CP	01.03.30
REV.	DESCRIPTION	BY	DATE
DESIGN	CP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D6101	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SADDLE BILLET, 7075	NTS
DATE	09.04.23	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries





A. M. Castle & Co.

# BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No:1289214

<b>Expédié de / Ship From:</b> A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		<b>Vendu à / Sold To:</b> DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		<b>Expédié à / Ship To:</b> WILL CALL-MONTREAL 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		<b>Livré à / Deliver To:</b> WILL CALL-MONTREAL 835 SELKIRK AVENUE POINTE CLAIRE, QC H9R 3S2 CA			
<b>Date d'expédition / Date Shipped</b> 27-APR-2012		<b>F.O.B.</b> ORIGIN		<b>Modalités de transport / Freight Terms</b> Prepaid		<b>Transporteur / Carrier</b> MANITOULIN		<b>No du Bon de connaissance / BOL No</b> 1289214-2	

<b>Détails d'expédition / Shipment Details</b>				<b>Destination finale / Final Destination Branch - MON</b>			
--	--	--	--	--	--	--	--

<b>N° de commande / Order No</b> 2141745		<b>N° de ligne Line No</b> 2		<b>N° d'article / Item No</b> 752237.MO		<b>Description</b> 2.0000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 6.25 IN ( + .0310/- .0000 IN (GRAIN TO RUN ALONG 7.875")) X 7.875 IN ( + .0310/- .0000 IN (GRAIN TO RUN ALONG 7.875")) - ALUMINUM PLATE SAW SPECIFICATIONS: QQ-A-250/12	
<b>N° de bon de commande / Purchase Order No</b> 16743		<b>Nbre de pièces / Part Number</b> YOUR ITEM NUMBER: D6101-003		<b>Qté commandée / Ordered Qty</b> 40.00 PCS		<b>Qté Facturée / Invoice Qty</b> 40.0000 PCS	

<b>Détails / Details</b>		<b>Usine / Mill</b>		<b>No de coulée / Heat Number</b>		<b>Code méc / Mech Id</b>		<b>Pièces / PCS</b>		<b>Largeur (Pouce) / Width (IN)</b>		<b>Longueur (Pouce) / Length (IN)</b>		<b>Qté expédiée / Shipped Qty(LBS)</b>	
<b>N° de livraison / Delivery No :</b> 117569245		CONSTELLIU M ROLLED PRODUCTS		213721				40						406.43	

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été/sont exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.  
These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.  
Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.



**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par

Reviewed by Authorized Castle Metals Representative:

Date:

Name:



Constellium



# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS  
67216



A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 1 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 135513				Constellium ORDER NO. 050-981421	
ALLOY 7075	CLAD. 00	TEMPER T7351	GAUGE 2.00000	WIDTH 48.500	LENGTH 144.500
ITEM ORDERED DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER 752237		B/L NUMBER 103600		DATE SHIPPED 01/05/12	
WEIGHT SHIPPED 12,865		NO. OF PIECES 9		GOVT. CONTRACT NO.	

**CERTIFICATION**

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South, Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

COND % IACS

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN	MAX									
			MIN.	MAX.	MIN	MAX.	MIN.	MAX.											
213721	LT	2	72.8	73.0	62.2	62.3	12.0	12.0	40.1	40.2									
All material contained in lot 213721 was cast and manufactured in the USA.																			
213731	LT	2	73.1	73.2	62.3	62.5	12.0	12.0	40.6	40.8									
All material contained in lot 213731 was cast and manufactured in the USA.																			
213751	LT	2	73.8	74.2	63.3	63.7	11.5	11.5	39.7	39.9									
All material contained in lot 213751 was cast and manufactured in the USA.																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
GAMPS 9101 100% SONIC MINUS DEAD ZONE CLASS A																			
AMS4078G,ASTM-B209-10,MMS159P,CMMP025;AMC CA-15413A R																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
ALUMINUM REMAINDER																			





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS

A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL

67216

60523

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 2 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM <b>135513</b>		Constellium ORDER NO. <b>050-981421</b>			
ALLOY <b>7075</b>	CLAD. <b>00</b>	TEMPER <b>T7351</b>	GAUGE <b>2.00000</b>	WIDTH <b>48.500</b>	LENGTH <b>144.500</b>
ITEM ORDERED <b>DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL</b>					
CUSTOMER SPECIFICATION <b>AMS-QQ-A-250/12</b>					
PART NUMBER <b>752237</b>		B/L NUMBER <b>103600</b>		DATE SHIPPED <b>01/05/12</b>	
WEIGHT SHIPPED <b>12,865</b>		NO. OF PIECES <b>9</b>		GOVT. CONTRACT NO.	

CERTIFICATION  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

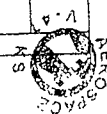
Constellium Rolled Products Ravenswood, LLC  
Rt 2 South, Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

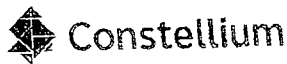
*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

COND % IACS

MIN MAX

LOT NUMBER		TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN		MAX	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.				
AMS STD 2154, PS21211L, ASTM B594, BSS 7055													





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



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3050 SO HYDRAULIC  
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1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL  
60523

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 3 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 135513		Constellium ORDER NO. 050-981421			
ALLOY 7075	CLAD. 00	TEMPER T7351	GAUGE 2.00000	WIDTH 48.500	LENGTH 144.500
ITEM ORDERED DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER 752237		B/L NUMBER 103600		DATE SHIPPED 01/05/12	
WEIGHT SHIPPED 12,865		NO. OF PIECES 9		GOVT. CONTRACT NO.	

CERTIFICATION  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South, Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

COND % IACS

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN		MAX								
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.											
ACTUAL CHEMICAL COMPOSITION																			
213721	C	SI= 0.07 CR= 0.20 OTHERS-EACH: .05 MAX.	FE= 0.14 ZN= 5.61	CU= 1.38 TI= 0.02 OTHERS TOTAL: .15 MAX.	MN= 0.04 ZR= 0.01	MG= 2.60													
213731	C	SI= 0.07 CR= 0.20 OTHERS-EACH: .05 MAX.	FE= 0.14 ZN= 5.61	CU= 1.38 TI= 0.02 OTHERS TOTAL: .15 MAX.	MN= 0.04 ZR= 0.01	MG= 2.60													
213751	C	SI= 0.07 CR= 0.20 OTHERS-EACH: .05 MAX.	FE= 0.15 ZN= 5.52	CU= 1.43 TI= 0.03 OTHERS TOTAL: .15 MAX.	MN= 0.05 ZR= 0.01	MG= 2.63													
SEE ACTUAL CHEMICAL COMPOSITION																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		ALUMINUM REMAINDER																	



# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



A M CASTLE CO  
3050 SO HYDRAULIC  
WICHITA KS

67216



A M CASTLE  
1420 KENSINGTON ROAD, SUITE 220  
OAK BROOK IL

60523

A M CASTLE 103601 4776 INCLUSION SERIAL#: 20120103103601 PAGE 4 OF 4

CUSTOMER PURCHASE ORDER NO. & ITEM 135513				Constellium ORDER NO. 050-981421		<b>CERTIFICATION</b>  "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."  Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager
ALLOY 7075	CLAD 00	TEMPER T7351	GAUGE 2.00000	WIDTH 48.500	LENGTH 144.500	
ITEM ORDERED DIST. AEROSPACE/MILITARY SPEC PLATE, SAWED MILL						
CUSTOMER SPECIFICATION AMS-QQ-A-250/12						
PART NUMBER 752237		Q/L NUMBER 103600		DATE SHIPPED 01/05/12		
WEIGHT SHIPPED 12,865		NO. OF PIECES 9		GOVT. CONTRACT NO.		

COND % IACS

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		MIN	MAX									
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.											
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE.																			
THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																			
CHEMISTRY BY OES: ARKSPARK																			
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																			
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																			
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																			
DUNS Number: 090570149; CAGE Code: 1YWL9																			
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																			
"END OF CERTIFICATION"																			
C H E M C O M P	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTA MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	



